

Box 74 Amazon

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DART

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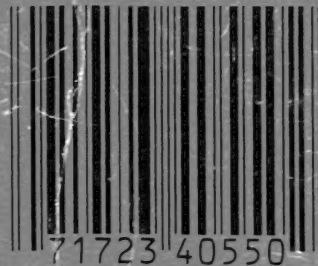
memo book

30 sheets

6 in.x 4 in.

no. 490

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2

Stuart Hall co. inc. KANSAS CITY MISSOURI 64108

2496

Brasil 79

Amazonia #1

Dec

2494 U.S. K, WIS, MO, NY

Piresia

~~2494~~ ~~WIS~~

~~2494~~ ~~WIS~~

June 12, 1979 - 2496
Am, Transamazon Highway
just above Igarapé Maquie,
152 km East of Humaitá.

Pariana sp.

Scattered inside dense,
tall, tall forest, ~~for~~
common but rare in
flower; soil with red
clay - beautiful rain
forest, wet, with
igarapé crossings, very
dark.

[This point was our 1st
camp in the Transama
Zinica, at ~~152~~ 153 ca 200
m. beyond the river, by the
bridge, on the left side
FAA 1 incl with 1003
a leafy

~~Pariana~~
~~Pariana~~

2497

Pariana
same loc. & tot.
longer, narrow lanceolate
leaves.

~~Pariana~~

2498

Pariana
broad, large leaves,

~~Pariana~~

~~Pariana~~ US, K, M, NY, WTS 2499

Schizanthus
in the same loc. point
~~not very abundant~~
not forming carpet, but
matted in

Pariana

2500

In dunes, matted
in the point, same
place, few in
flower 1?
union?

~~Pariana~~ &

~~Pariana~~

~~Transamazon Highway~~
~~Transamazon Highway~~

June 13

2501

Am. Transamazon Highway,
ca. 1.5 km above Igarapé
Magus, (right side of the
road), ca. 152 km east of
Humaitá.

Pariana sp.

Common in rain forest
at least near
trail. Beautiful fruit
with some trees cut
down, but not copiers,
probably cut to make
bridge on road.

Soil with top layer of
coarse reddish sand.
not with.

Difficult to find for
many sp. of *Pariana*.
There are in this area.

There are many forms,
and all are very
abundant. Many with
flowers, and several
seen with fruit
formed. Also in
several ones several
seedlings around
parent plant.

More or less tall plant
up to 1 m tall, but,
oval shape, sometimes
only one.

FRA: 1:1 xial base x infl.
base: 1:1 xial base
3:1:1:1 xial base

~~Pariana~~ &
~~Pariana~~ &

2502

Pariana

Same loc. & site

In al. plant ca 30-40cm

Infl. from rhizome
with verticils of 8 spha
spread out (probably
near anthesis?) -
very few of this type
seen.

no FAA

2503

Pariana

Same loc. above summit
somewhat larger than the

2504 -

~~Pariana~~ &
~~Pariana~~ &

~~Pariana~~ &
~~Pariana~~ &

2504

Pariana

Same loc. - abundant
in the area not
family cover.

Pariana

2505

Large, broad leaves

~~Pariana~~ &
~~Pariana~~ &

~~Willow~~ ⁴⁴
~~2506~~ ⁴⁴

2506

Panicum sp.

Same loc., near the entrance of the forest tall, robust plants, up to 2 m tall. Lf. short, from the base of the plant. May leaves in the leaf sheath.

Panicum

2507

Smaller plant, narrow leaves, and thin in flower.

2508

Commelinaceae

Thin plant, mostly in fruit, color yellow.

Panicum

2509

Leptocarpus (cf. *pusillus*)

± common in the rain forest floor.

Barium y. 2510
Tall plants co, 1200m

Barium 2511
Leaf complement
with many leaves
lanceolate and narrow

Rutaceae 2512
Plants on sandy
soil, open trail
of forest, fruit orange

Piperaceae 2513
Growing on a bank
of river in dense rain
forest with sandy
(loam type) soil and
very tall trees

Wells from strata 2514

Bellucia grossularioides (L.) Triana
"goiaba de anta" or
"papateira"

+ small tree, ca
6-8 m. tall, large
flowers, white petals
and fruit - growing
at edge of ^{tall} forest.
Beautiful 1/2 acre
along road.

June 14

25/5

same loc. as yesterday

~~Yes~~ ^{yes} ~~Not really~~

Trichilia
Shrub tree, about 12m
tall and 15cm diameter
with fruit. In
tall, rain forest with
no trees cut for
trail.

Wood with steep ^{old} ~~wood~~
slopes of Vick Vapour

Piperaceae
June loc. 2 Jote

2516

climbing on tree, 1st part
with sandy soil (redish)

Panicum
micran

2517

(1800)

Stems culms and infl.
narrow, sheaths -
leaves lanceolate, narrow
growing in small clumps
in forest.

Piperaceae

2518

Tall plants along trail
in tall, 1st, rain forest,
of sandy soil (washed soil
type)

June 14 (week ^{afternoon}) 2519

Am. Trans. Am. J. on

Highway, 7.2 Km above

Paraje Negro, ± 159 Km
East de Hamarito

Meristachys ~~sp.~~

ca. 10 m tall and 1.3 m
diam. - bark on trees.
Fruit clusters mixed
with trees on

1st rain forest, near edge
(only 3 or 4 drops per sec) -
this \pm 1 or 1.25 m. from -
strong culms almost solid,
only small canal in center
filled with soft pith - internodes
smooth, little apex bolder node
node with rip of silky, gold hairs
when leaf long on plant, dry,
blade reflexed caducous, falls
both fall. Seed heads on
nodes, buds developing on
and arch line, very little
of Δ , sometimes absent in a
line - leaves narrow type.

\pm narrow lanceolate
3 internodes, nodes 78-79 cm
garnishes, blue white spots red #2
acacia-like + red C.

FAA: 2 nals, buds x leaves

2520 Pham
2521 Chirolophaceae

2522. Lanius
2523. Bahinia
2524. Olyra latifolia
2525. Pisonia perfoliata
polio. 34

527 Km road -
7 Km to

campments

2520

same loc.

Pisonia sp. one
In \pm disturbed ~~edge~~ area
of meadow of edge of
forest. Very tall
robust plant ca. 1.40 m
tall. Pale inflorescence

early budding in sections
and getting stick to cloth -
Vest seen with a
huge Pharus, almost
as tall as me -
no FFA

2521

Chrysobalanaceae
Hirtella sp.

Shrub, about 1.5 m
in rain forest, in
± disturbed area near
edge -

2522

Lamiaceae

Shrubby grass, ~~erect~~
to 1.5 m or more -
with strap leaves in
main clusters, 1 inch
per node - All plants
in flower, an - fruits
dark color

Legum. Cereale

2523

Bauhinia

Growing in area ± disturbed
near edge of forest
Very ramified tree, about
50 m tall

2524

Olyra latifolia

Very robust plant in
area near edge of rain
forest of tall trees -
ca. 2 m tall - with
very broad, large leaves.
no FAA

Pariana

2525

Growing in + disturbed
area of ~~old~~ ^{abandoned} ~~abandoned~~
trail in 19, rain
forest of very tall trees (40,
50 m tall) - ca. 1.25 m
tall, very strong rhizome
at ~~bottom~~ ^{with} top
severe oral rot -
In for top and perianth

leaves from top of culm
7 m another, nearly
slum. Both types of
old, perianth terminal
in fls. and new and
old hard ones but
these with tall stems
ca 30 - 40 m tall
FAA - 1 trial with leaves
leaves very broad.

26
27

June 15

2526

Am. Transamazon Highway
ca 62 Km East of Ipanama
Mafun.

Vitaceae

Leguminosae

2527

Hymenoclea lamarckii?

"intolca"

Tree

Km. 15596

2528

June 15.

2528

Am. Transamazon Highway
ca 62 Km East of Ipanama Mafun;
Rio ?

Gynanomaia sp.

Growing in wet soil
forest & verges near edge
of river.

Plant robust, ca. 1.75 m
not erect but spreading
over others. Plants &
fringe are lot of
Panicum but no flowers

June 17

2529

Am. Transamazon High-
way, ca. 9 km W of Rio
de Pombas - $\frac{1}{2}$ x 64 km E of
Campina Alegre - ^{Amazônia}

Humiriaceae.

Humiria sp
"miri"

Small tree, branched
ca. 2 m.

Campina type of ~~the~~
forest, in ~~side~~
~~open~~ open place of
the campina. Small
tree, a shrub reproductive
on ~~white~~ white sandy
soil - flowers very
old.

Gutierrezia

2530

fr. "alpedi" spui

In white sand soil
campina, in side of
open place - tree
about 6 m tall.
In fruits.

~~Lythraceae~~ Ericaceae 2531

Good name like coustaria or
bambusa?

Shrub about 1 - 1.5 m
tall in white sand
campina - flowers
white

Lepurminosae 2532
Papilionaceae

Climbing plant on
campfire - Flowers
light blue and white
[only one sample with
pores & 5 mm in fruit]

Lepurminosae 2533
Lupulinoideae

Eperua sp -
In ~~moor~~ open area
of campfire, small
tree of ab 1.5 m
Flowers lila-

Convolvulaceae 2534
Hirtella sp -

Shrub ^{climbing} about 1 m.
Flowers like cold
[only 1 sp.] in flowers &
fruit

Lepurminosae * 2535
Lassia

in campfire, Shrub about
2 m. tall. Flowers
still not open

475"

Foranaceae 2536

Epiphyte on small
trees of white sand
campina - in
fruit

Polypodiaceae 2537

Shrub ss. 2m tall with
small fruits

Pteridophyte 2538

In white sand campina
(~~with mosses~~ ~~the~~ ~~with~~
~~the~~ ~~with~~)

Bruniaceae 2539

Epiphyte on small
trees of campina
Flowers white dark pink
and bracts redish -
In flower & fruit.

Pteridophyte

2540

In white sand campine
in openings of ~~the~~ ^{the}
taller trees - 1

Rubiaceae

2541

Psychotria

Shrub ca. 2.5 m with
dark pink flowers -

Violaceae

2542

Licania sp.

Small tree ca. 3 m tall
with white flowers -

Rubiaceae

2543

Paspalum

Shrub ca. 3 m tall
in white sand campine.

Phytolite - 2544
Polyodiaceae.

Abundant in flood of
transition type of forest
"campina alta" &
campinarana -

Paniana 2545
In some places of
transition type of forest
of campina all well
campinarana
or campina alta
in dense clumps, tree
cultures with dense
and long oval latex, ca
1.50 # 1.75, with

264 Km E of Aripuanã
River

thin, long, terminal
inflorescences.

June 18 2546

Am. Transamazon High
way, 9 km W of Rio dos Pombos (alt 1500m
west of São José do Bonito)
Apocynaceae

Mandevilla

Shrub with large yellow
flowers, on rocky soil
of campina all
white latex.

~~Scutellaria~~ 2547
Mandevilla
c/o yellow flower.

Xyridaceae 2548
Abolboda grandis Griseb. - off-
white. with blue flowers
abundant

Xyridaceae 2549
Xyris sp.
very small with yellow
flowers, common.

Ericaceae 2550
Caepalanthus
abundant on white
sandy soil, small
yellowish inflorescence.

Rapateaceae 2551

~~Abundant~~

Cephalostemon gracilis Reb. Schomb.

Abundant, yellow

flowers, they have 7
leaves; (fett fruit.)

2552

Eriocaulaceae

Eriocaulon

Abundant with rosette of
leaves and white line
of hair like wool on the
center of rosette. White
flowers

Eriocaulaceae

2553

Abundant, white rosette
on top of rosette of leaves

Eriocaulaceae

2554

Rapalanthus

Larger than the other with
bore rosette and
a 2° above with
branched inflorescence.
Flower white

Eriocaulaceae #

2555

Paepalanthus

~~the~~ Grass type leaves, head
tall. ca. 30 cm or less
white flowers.

Macairea sp. ~~possibly new sp.~~

Melastomaceae # 2556

fls rose, shrubs.
up to 2 m

Andromeda 1992? = ?

Xiridaceae ?

2557

One leaf in flower. with
3-merous yellow flowers.
Abundant common

Eriocaulaceae # 2558
Eriocaulanthus

Golden hairy head in flower.
cease. The main part
of campina, leaves
and inflo. stem. are
white like skin?

Gramineae 2559
Paspalum?
Common but mostly
passed a by-

Rubiaceae 2560
Bonania sp.
Light pink color flowers
and red stems, shrubby
herb.

Ochnaceae 2561
Saurauia sp.
Flowers small white with
pink. Has oval leaves
alternate. Herb, not
common

~~Quercus~~ 2562
Fichtelbergia
Lycopodium complanatum A.C. Hoffm.
Very salivate herb, ^{small} all
pink redish plant. ^{the} Ph
yellow flowers.
Common in humid
spot of campus

Persea hirsuta Mill.

Rubiaceae ~~to~~ 2563
yellow small flowers
common in the white
sandy campine

Ericaceae 2564

with flowers and narrow
thin leaves, as seen by
I hope the previous ones -
In humid spots, common

Pteridophyte 2565

In humid spots of campine
under small trees. in
association with the next Pter-
idophyte

Pteridophyte 2566

In humid spots of campine
under small trees, in
association with 2565

Rubiaceae

2567

Shrub ca 2-4 m, in
fruits.

Rubiaceae

2568

Palicourea?

Shrub ca. 2 m. Fl. orange
in the rampine. Flowers
yellow with red calyx

Apocynaceae
Counara?

2569

Arbusto de 20 cm a 1.5
m. Flowers pink

Apocynaceae

2570

~~Arbusto~~ Tree about 6 m
high, one of the tallest
trees of the rampine.
only with young fruits

Rubiaceae

2571

In fruit, trees 3-4 m. h.
in campina

Lorantaceae

2572

Epiphyte in fruit -
on small trees of campina

Guttiferae

2573

Tree ca. 5 m. with only
fruits -

Euphorbiaceae

2574

Croton?

~~Shrub~~ Shrub ca. 1.5 m.
with green cream color
and fruit

Poaese 2575
Aronopus (sec. Cabrera) L.
(Infl. reticulate \downarrow) Pampa
with white long hair
In opening of canyons
in the large superficial
stones (sandstones?)
(arenito) Abundant

Fern (same loc.) 2576
Lycopodium
ca. 1.20

Hypericum 2577

Small plant common
in open places yellow

Erigeron 2578

Very small white
flowered plant with
white and yellow
in the leaves

Panicum

2501

Very small, light colored
very flat in cross-section
dense, brownish
on wet places, etc.
Abundant

Panicum

2502

Paspalum

Large, flat, as 30-40
white, long, in 10's, with
small white dots on
the surface, just like
Panicum, but more
abundant

Panicum?

2501

Very small, light colored
very flat in cross-section
dense, brownish

Panicum

2502

Very small, light colored
very flat in cross-section
dense, brownish

Cyperaceae

2583

Common in campina

Malpigiaceae

2584

Tree ca. 3 m. common in
campina, flowers
white.

Legum.?

2585

Yellow flower, tree ca. 3 m.

Fam. Incognita

~~Melastomaceae~~
Melastom. Siphanthera

2586

Very small, shrubby plant
common in wet spot
of campina, flower bright pink.
Malpigiaceae 2587

Low small tree ca. 3 m
flowers white turning
pink.

Compositae 2588

White flowers, shrub. ca.
1.50 - 1.70

Malpighiaceae 2589

Shrub ca. 1.50, white flowers

Ericaceae 2590

^{very pale pink}
Small reticulate of leaves
along the entire length.
golden color.

Myrsinaceae 2591

Shrub ca 1.50, with pink

& fruit

Melastomataceae 2592

^{Psychotria huberoides}
Shrub ± 1.5 - 2 m tall

with fruits & seed ^{flowers} pink

orange color

^{Psychotria} ~~Psychotria~~ ? 2593

^{Psychotria}
very small, mostly

in fruit

Melastomataceae 2594

very delicate, growing between
rocks & woods, flowers
white

Pteridophyte 2595

Delicate in wet spots

Melastomataceae 2596

^{Miconia subimplex}
Shrub ca. 2 m tall

^{Fern} ~~Melastomataceae~~ 2597

^{Siphonanthus}
Delicate in areas of transition
with campinarana (mixed
taller forest - flowers pink.

Gentianaceae 2598

^{Chelonanthus}
Flowers white in

Bromeliaceae 2599

similar to mate &

transition campinarana

Rosaceae 2600

Rubiacaceae

Chromolaena

Qua

2642

2607
2523
14

2648

2529

119

3

Zico

22